BHP Pet. (Americas) Inc. ERG
9 Navajo, Apache Cty 687
SW NE Sec. 26. T41N R30E

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COUNTYApache	AREA Teec Nos Pos	LEASE NO.	14-20-603-716
	_		:
WELL NAME Energy Reserves	Group, Inc. Navajo - C	<u> </u>	
LOCATION _SW/NE SEC	26 TWP 41N RANG	E 30E FOOTAGE 23	10 FNL & 1650 FEL
ELEV 5232 GR 5244 KB	SPUD DATE//-2/-	77 COMP. DATE / - 2	DEPTH 5840 PBTD 5490
CONTRACTOR Coleman Drilling	z Company		
CASING SIZE DEPTH CE	MENT LINER SIZE & D	DEPTH DRILLED BY	ROTARY
898" 507 38	35 5/19	DRILLED BY	CABLE TOOL
5/12" 5840 50	O 5/55	PRODUCTIVE	RESERVOIR
			DUCTION
	COLDCE		
FORMATION TOPS DEP	SOURCE THS L.L. E.L.	REMARKS	
	face		
Chinle 1, De Chelly 2,	66/' 712'		
Outler			
(Undivided) 2,	968'		
- Upper Hermosa 4,	1451		
Upper Ismay 5,	145'		
Lower Ismay 5, Desert Creek 5	,286'		
Akah 5	,425'		
- Lower Hermosa 5	,558' ,774' (ie Finkerthy Truil Fo	1	
T,D.		ľ	·
Driller 5	,840'		
= logger 5	[835'		
= Logger 5 ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
baterolog, Sonic,	5153 57\$5730-3U		SAMPLE DESCRP.
WATER OLDG, JONIC,	13603-3740700-07		SAMPLE NO. <u>17998</u>
Comp. Form, Density	5307-12, 5252-64		CORE ANALYSIS
	5166-72	1	DSTs
			·
REMARKS			APP. TO PLUG
KBPBKKS			PLUGGING REP.
			COMP. REPORT
WATER WELL ACCEPTED BY			si ^{rr}
BOND COSeaboard S	Surety Co. Feled in F	1689 BOND NO. 1	13-14-5/
BOND AMT. \$ 25.000.	, , , , , , , , , , , , , , , , , , , ,	DITI'D '	9-18-70 REPORT 10-10-77
FILING RECEIPT 1004	• •	 .	PLAT BOOK X
API NO. 02=001- 2022			W/2 of NE/4
PERMIT NUMBER687			

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(over)

RESULTS FROM TO NO. Rec. 54' Rec. 56' 5299 See Core ANY. 5240 \$360 5300 CORE RECORD RECOVERY REMARKS TO NO. FROM REMEDIAL HISTORY NEW PERFORATIONS DATE STARTED - COMPLETED WORK PERFORMED ADDITIONAL INFORMATION

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2,310' FNL	& 1.	650': I	EL	(SI	W NE)				Apa	iche	<u></u>			int	5-81	or	<u> </u>
c. TWP-Range or							_				per	سلام	50	ğ 11 X	5-81		
Sec. 26-T4		0E								/		~~			Elevation	on of	casing
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Permit No.	687								1								

(Complete Reverse Side)

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		PENETRATED

Fermation	100	Settem '	Detrolydical
Morrison Chinle	Surface 1,667' 2,712'		Core #1 - 5,240'-99'. Rec. 54'. Core #2 - 5,300'-60'. Rec. 56'.
De Chelly Cutler (Undivided) Upper Hermosa Upper Ismay	2,968' 4,423' 5,145'		Barker Creek Perfs 5,653'-57'; 5,730'-34'. Spotted 30 sx 'B" w/2% CaCl ₂ across perfs.
Lower Ismay Desert Creek Akah Barker Creek	5,208' 5,286' 5,425' 5,558'		
Lower Hermosa T.D. Driller Logger	5,840' 5,835'		
1.e	Pinkerton 7	mil	
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			in the second se

[•] Show all important some of periody, detail of all cores, and all drill-atom tests, including simple interval testod; our flowing and skyl-in pressures, and recoveries.

INSTRUCTIONS:

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Attage lillegs log or other acceptable log of well.

Attage lillegs log or other acceptable log of well.

The bil Completion or Recompletion report, and well log shall be that with the State of Arbenn Cit & Gas Commerciates not later than thirty also after project completion.

MAY 6 1985

D & G CONS. COMM.

Energy Reserves Group, Inc. 1. Name of Operator, DRY OTHER [3. OIL WELL GAS WELL (Specify) 3. Well Name Navajo Tribal "O" NO. 9 2310' FNL & 1650' FEL Apache 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Navajo Tribal "0" Teec Nos Pos-Ismay 5. Field of Pool Name_ 6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: MONTHLY PROGRESS **PULL OR ALTER CASING** WATER SHUT-OFF TEST WATER SHUT-OFF REPAIRING WELL DIRECTIONAL DRILL FRACTURE TREATMENT FRACTURE TREAT **ALTERING CASING** PERFORATE CASING SHOOTING OR ACIDIZING SHOOT OR ACIDIZE THEMOUNABA REPAIR WELL CHANGE PLANS (OTHER) (OTHER) (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) The subject well was plugged and abandoned as follows: 4-23 to 4-24-85: MI RUSU. Installed BOPE. PU csg scraper and TIH to 4920'. Circ hole w/9.2#/gal mud. TOOH. Perf'd 2763', 1440', and 570' w/4 JSPF. PU packer and TIH to 2663'. Set packer. Tried to pump into perfs @ 2763' but could not. Release packer and TIH to 2810'. Mixed and spotted a 15 sx Class "B" cement plug from 2810' to 2681'. PU packer to 1340' and set. Mixed and pumped 45 sx Class "B" cement below packer. Release packer and PU to 470'. Set packer. Mixed and pumped 45 sx Class "B" cement below packer. Released packer and TOOH. Layed down packer and TIH to 50'. Mixed and pumped 6 sx Class "B" Cement. TOOH. ND BOPE. RD MOSU. 4-26-85: Cut off wellhead and installed dry hole marker.

Title Petroleum Engineer Date

Form No. 25

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION Sundry Notices and Reports On Wells File Two Copies

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8. I hereby certify that the foregoing is true and correct.

SUNDRY NOTICES AND REPORTS ON WELLS

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SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED W

APR 15 1985

O & G CONS. COMM. 1. Name of Operator Energy Reserves Group, Inc. 2. OIL WELL GAS WELL OTHER L (Specify) Dry Hole 3. Well Name Navajo "0" No. 9 2310' FNL & 1650' FEL __ County Apache _____ Arizona. 30E-4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-603-716Teec Nos Pos-Ismay 5. Field or Pool Name... 6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: MONTHLY PROGRESS PULL OR ALTER CASING TEST WATER SHUT-OFF WATER SHUT-OFF REPAIRING WELL DIRECTIONAL DRILL FRACTURE TREATMENT FRACTURE TREAT ALTERING CASING SHOOT OR ACIDIZE PERFORATE CASING SHOOTING OR ACIDIZING CHANGE PLANS (OTHER) Plug and Abandon (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Energy Reserves Group, Inc. is proposing to plug and abandon the subject well as follows:

1. MI RUSU. Install BOPE. PU casing scraper and tuing. TIH to 4920'. Circulate hole w/9.2#/gal mud. TOOH.

2. Perforate @ 1440' w/4 JS (50' below Wingate Formation Top) and @ 570' w/4 JS (50' below surface casing shoe).

3. PU packer and TIH to 1340'. Set packer. Mix and pump 45 sx Class "B" cement below packer displacing with 9.2#/gal mud.

4. Release packer and PU to 470'. Reset packer. Mix and pump 45 sx Class "B" cement below packer displacing with 9.2#/gal mud.

5. Release packer and TOOH. TIH w/tubing to 50'. Mix and pump 6 sx Class "B" cement. TOOH. Top off well as necessary w/Class "B" cement.

6. ND BOP. RD MOSU. Cut off wellhead and install dry hole marker.

It is anticipated this work will be performed during the week of 4-22-85 to 4-27-85.

This procedure was discussed and approved by Mr. Rudy Ybarra with the Arizona 0i1 and Gas Commission on 4-10-85.

This well was plugged back above all potential producing zones in October 1981 because the upper most potential zone, the Upper Ismay, still turned out to be uncommercial after an acid frac.

8. I hereby certify that the foregoing is true and correct.	
signed Paul Bertoglio	Petroleum Engineer 4-10-85
Paul Bertoglio	STATE OF ARIZONA

OIL & GAS CONSERVATION COMMISSION
Bundry Notices and Reports On Wells
File Two Copies

Form No. 25

Permit No. 68/

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9-331 1973	Form Approved. Budget Bureau No. 42-R1424
UNITED STATES	5. LEASE
DEPARTMENT OF THE INTERIOR	
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo きょう しょる ユーハル
	T HAVE ACRESSED NAMES
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAMES RECEIVED
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME 3 NOV 9 1981
1. oil (M. gas	Navajo "OTERE E NOVE O ISOT
well M well L other	9. WELL NO. STATE TO SEGRECONS. COMM.
2. NAME OF OPERATOR	10. FIELD OR WILDCAT NAME
Energy Reserves Group, Inc.	Teec Nos Posi - a sale A
P. O. Box 3280, Casper, WY 82602	11. SEC., T., R., M. OR, BLK. AND SURVEY OR OS
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA 출고경향 및 등환경을
below.)	Sec. 26-T4ÎN-R30E를 출유할 중
AT SURFACE: 2,310' FNL & 1,650' FEL	12. COUNTY OR PARISH 13층STATE 등 등 Apache 독등등등 RAYHIZONA
AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	14. API NO. This of the committee of the
REPORT, OR OTHER DATA	15. ELEVATIONS SHOW DF, KOB, AND WD)
	G.L5,231 (K.B. 5,244)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
TEST WATER SHUT-OFF	전 보고 있는 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SHOOT OR ACIDIZE	1000 May 100
REPAIR WELL	(NOTE: Report results of multiple completion or zone
PULL OR ALTER CASING	change on Form 9-330.)
CHANGE ZONES	Silve and Silve
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(other) SUDSEQUENT - INA.	was was control of the control of th
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statistical description of the complete	lirectionally drilled, give subsurface locations and
The Desert Creek perfs (5,307'-5,312') and L	ower Ismay perfs (5,252 5, 264')
were squeezed with 40 sx. of Class "B" cemer	it below the cement retainer set
at 5,225'. A 60 sx. plug was placed across	the Upper Ismay perfs (5,166, -5,172')
on top of the cement retainer. The cement	Figure of the way to be the second subject to second subject to be the second subject to be the second subject to sec
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Subsurface Safety Valve: Manu. and Type	Et. September 19 S
18. I hereby certify that the foregoing is true and correct	RMD November 5: 1981 ::
at 5,225'. A 60 sx. plug was placed across on top of the cement retainer. The cement sinker bar on a wireline. Subsurface Safety Valve: Manu. and Type 18. I hereby certify that the foregoing is true and correct signed faul bartoglio TITLE Prod. Engr.— Paul Bertoglio	RMD DATE NOVEMBER 53 1981
Paul Bertou 10 (This space for Federal or State of	52332 99 995 4
(this space for rederal or scale)	
APPROVED BY TITLE TOTALE	DATE 33331 9 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5
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*See Instructions on Reverse Side

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RECEIVED Form Approved G CONS. COMM. 9–331 Budget Bureau No. 42-R1424 1973 5. LEASE **UNITED STATES** តាត់ គូប ការសេក ချွန်းနှင့် စွဲနှင့်နှင့် दें र ज 14-20-603-716 DEPARTMENT OF THE INTERIOR 6. IF INDIAN, ALLOTTEE OR TRIBE NAME **GEOLOGICAL SURVEY** Navajo 말을 들은 7. UNIT AGREEMENT NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.) 8. FARM OR LEASE NAME Navajo "O" 22 25 34 55 3 gas U well [X] 9. WELL NO. 3 other 2. NAME OF OPERATOR 10. FIELD OR WILDCAT NAME Energy Reserves Group, Inc. Teec Nos Pos 3. ADDRESS OF OPERATOR P. O. Box 3280, Casper, Wyoming 82602 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 26-T41N-R30E 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 AT SURFACE: 2,310' FNL & 1,650' FEL AT TOP PROD. INTERVAL: 12. COUNTY OR PARISH 13. STATE 5 0 <u>Apache</u> AT TOTAL DEPTH: 14. API NO. 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 15, ELEVATIONS (SHOW DF, KDB, AND WD) SUBSEQUENT REPORTS OF REQUEST FOR APPROVAL TO: ž. TEST WATER SHUT-OFF U. S. GEOLOGICAL N. M. M. S. ADMINGTON, N. M. FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING FARMINGTON, N. M. MULTIPLE COMPLETE **CHANGE ZONES** ABANDQN* (other) Temporarily Abandon 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Energy Reserves Group, Inc. proposes to plug the following perforations in the subject well: Desert Creek - 5,307'-5,312', Lower Ismay = 5,252' = 5,264'; and the Upper Ismay - 5,166'-5,172'. The Desert Creek and Lower Ismay perfsawill be squeezed below a cement retainer set at 5,225' and a plug across the Upper Teast 5:095-Internet Ismay perfs will be set on top of it to a depth of the Upper Ismay Formation top). Verbal approval for this work was received from Richard

No. 10-21-81.

Perbal approval for this work was received from Richard

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Perbal approval for this thin the proval for this thin the province of this thin this t Subsurface Safety Valve: Manu. and Type ogen on energy of the or energy of the o 18. I hereby certify that the foregoing is true and correct TITLE Prod. Eng.-RMD trial states of the control of the c

APPROVED BY APPROVAL IF ANY:

See Instructions on Reverse Side

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Energy Reserver Graup Vental Approval to plug Well #9 Mar-O Teec Nos Pos field Alt

P/N 687

30E

14-20-603-716

Energy Reserves Group, Inc.

41N

Tec Nos Pos Field

4. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

OTHER L

GAS WELL

2,310' FNL & 1,650' FEL

4. Federal, State or Indian Lease Number, or lessor's name if fee least

I. Name of Operator,

2. OIL WELL

5, Field or Pool Name.

3. Well Name Navajo "O" No. 9

26

RECEIVED

100 10 1301

O & G CONS. COMM.

Apache

Arizona.

NOTIC	E OF INTENTION TO:	SUBSEQUEN	T REPORT OF:	
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (OTHER) TEMPORA	PULL OR ALTER CASING DIRECTIONAL DRILL PERFORATE CASING CHANGE PLANS TILY Abandon	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (OTHER)	MONTHLY PROGRESS REPAIRING WELL ALTERING CASING ABANDONMENT	
		(NOTE: Report results of multip or Recompletion R	ple completion on Well Completion eport and Log form.	

 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and somes pertinent to this work.)

Energy Reserves Group, Inc. proposes to plug the following perforations in the subject well: Desert Creek - 5,307'-5,312', Lower Ismay - 5,252'-5,264', and the Upper Ismay - 5,166'-5,172'. The Desert Creek and Lower Ismay perfs will be squeezed below a cement retainer set at 5,225' and a plug across the Upper Ismay perfs will be set on top of it to a depth of at least 5,095' (50' above the Upper Ismay Formation top) for this work.

Verbal approval was received from A.K. Dass with Arizona Oil and Gas Conservation Commission on 10-20-81.

8. I hereby certify that the foregoing is true and correct.

Paul Bertoglio

THE Prod. Engr. - RMD

Date October 21, 1981

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Bunday Notices and Reports On Wells
File Two Copies

Form No. 21

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. Name of Operator	Energy Reserv	es Group, Inc	<u> </u>	·	······································
OIL WELL		OTHER [(Specify)		
Well Name	Navajo ''0'' #9				
Location	2,310' FNL &		SW NEE)	1	•
sec. 20	Twp 41	N Pro		pache	_, Arizona.
. Federal, State or Inc	ilan Lesse Number, or less	or's name if fee lease	Navajo 14-20-603-71	5	<u></u> ,
. Field or Pool Name.	Teec Nos Pos	- Ismay			
5. Check Appropriate!	Box to Indicate Nature of l	Notice, Report, or Oti	er Data		
TEST WATER SHUT- FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (OTHER) T.A.	OFF PULL OR AI DIRECTION OF PERFORATE CHANGE PL	AL DRILL CASING ANS	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (OTHER)	MONTHLY PROGRESS REPAIRING WELL ALTERING CASING ABANDONMENT	
			(NOTE: Report results of mu or Recompletion	ltiple completion on Well Cor Report and Log form.)	npletion
Upper Ismay Lower Ismay Desert Creek Individual t data to aid valid BHP da the zones. I and Desert C perfs in the be permanent Intention to	Perfs - 5,166'- Perfs - 5,252'- Perfs - 5,307'- Testing of the abin evaluating points of the Lower It is proposed to creek perfs. This is casing. If furtily abandoned, we had all of setting the	5,172' 5,264' 5,312' ove zones prossible course Ismay zone. 'I set a cement will temporative will sting fone will be su	duced little to no oil so of actions and measured and esting has verified no retainer at 5,290', burily isolate the Lower on indicates that the Dinto the retainer and pubmitted at that time.	. In an effort to t is desired to ob- communication bet etween the Lower I Ismay and Desert esert Creek zone is ump cement below in Ismay and Desert	obtain otain tween Ismay Creek is to it. An
			·	KE	المساء يتلطن
		•		Hr	k 2-6 1978
				0 & 9	CONS. COMM
8. I hereby eerilly sha	nt the foregoing is true and	correct.			
Bigned Afla	4 10. low	w	Title Dist. Prod. Eng.	c. Date 4-24-78	
Farmel No. 687	7		OIL & GAS CONS Bundry Notice	OF ARIZONA ERVATION COMMISSIO Es and Reports On Wells E Two Copies	N

Form No. 25

Permit No.

SUNDRY NOTICES AN	ID REPORTS ON WELLS
1. Name of Operator Fnergy Reserves Group, Inc.	
2. OIL WELL A GAS WELL OTHER OTHER	(Specify)
3. Well Name Navajo "O" #9	
Location	NE½)
Sec. 20 Two 41N Rge	30E Apache Arizona.
4. Federal, State or Indian Lesse Number, or lessor's name if fee lease	Navajo 14-20-603-716
5. Field or Pool Name Teec Nos Pos - Ismay	
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other	r Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF: MONTHLY PROGRESS
TEST WATER SHUT-OFF PULL OR ALTER CASING PRACTURE TREAT DIRECTIONAL DRILL	WATER SHUT-OFF FRACTURE TREATMENT REPAIRING WELL
SHOOT OR ACIDIZE FERFORATE CASING	SHOOTING OR ACIDIZING ABANDONMENT
REPAIR WELL CHANGE PLANS (OTHER) Temporarily Abandon X	(OTHER)
	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly sta	te all pertinent details, and give pertinent dates, including estimated date of urface locations and measured and true vertical depths for all markers and
uneconomical at the present time. We are evaluating various courses of action as an economical oil producer.	oil producing rates and well appears to be on to determine if this well can be completed ell in a Temporarily Abandoned status pending
•	
	RECELLA
	MAR 2 2 1978
•	Q & G CONS. COMM.
	The section of the se
8. I hereby certify that the foregoing is true and currect. Bigned Allina B. Barulu	3_10_78
sunce fymas 15. 16	Title Dist Prod. Engr. Date 3-10-78
Permit No. 687	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notices and Reports On Wells File Two Copies Form No. 25

Name of Operator Friendly Neset ves Gloop Inc. 1 OIL WELL [X] GAS WELL OTHER [(Specify) 10 19 1 Well Name Navajo ''O'' #9 Location 2,310' FNL & 1,650' FEL (SW NEX) 20 Twp 41N Rgo 30E County Apache	. Arizona.
Navajo ''0'' #9 2,310' FNL & 1,650' FEL (SN NE%) 20 Ten 41N Rev. 30E County Apache	Arizona
2,310' FNL & 1,650' FEL (SW NE's) 20 Ten 41N Rev. 30E County Apache	Arizona
20 Ten 41N Rev. 30E . County Apache	Arizona
4 Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-603-716 Navajo	
3. Full of Puol Name Teec Nos Pos - Ismay	
8. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTERTION TO: SUBSEQUENT REPORT OF: MONTHLY PROGRESS	
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL CHANGE PLANS PULL OR ALTER CASING WATER SHUT-OFF REPAIRING WELL FRACTURE TREATMENT SHOOTING OR ACIDIZING ABANDONMENT Proceess	
(OTHER) FLOSLESS (NOTE: Report results of multiple completion on Well Comprose or Recompletion Report and Log form.)	
9. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estima starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all m	led dale of
starting any proposed work. If well is directionally drilled, give substrance locations and measured and true vertical depths for all measures pertinent to this work.)	arkers and
12-29-77 Make short trip to 1,567'. Rec. B.P. Reran Baker Mod. "B" Lok Set B.P. w/Amerada press bomb w/72 hr. clock. Set B.P. at 5,287' KBM.	
12-30-77 Rig up McCullough. Perfed Lower Ismay 5,252'-64' w/2 JSPF Omega Jets. Tw/Baker FA retrievamatic w/9' tail pipe. Pkr at 5,240'.	TH
12-31-77 Ran GR log. Log showed strong radioactivity across perfs 5,252'-64'. Testing. Acidized w/14-1/3 bbls, 28% NE HCL.	
01-01-78 Testing.	
01-02-78 S.D. for New Year. REC ジュソーン	
01-03-78 S.D. for New Year. JAN 9 1973	-
01-04-78 Testing. 0 & G CONS. COMM.	
01-05-78 Press recorder below RBP showed no communications between the Desert C and the Lower Ismay. TIK w/press recorder. Installed below RBP to 3,00	reek 0' <u>+</u> .
01-06-78 Prepare to perf Upper Ismay 5,166'-72' w/2 JSPF. No signs of gas or oi perf.	l after
8. I hersby certify that the foregoing is true and current	
Maried - Terry () The Production Engr. Date 01-06-78	3
STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notices and Reports On Wells File Two Copies Form No. 23	1

U

LOLUMEL K	GAS WELL OTHER	(Specify)
. Well Name Navaj	o ''0'' #9	
Location 2,310)' FNL & 1,650' FEL (SW NEX	
sec20		30E county Apache Arizona.
8. Federal, State or India	n Lease Number, or lessor's name if fee lease	Navajo 14-20-603-716
. Field or Pool Name	Teec Nos Pos - Ismay	
	k to Indicate Nature of Notice, Report, or Othe	
	TICE OF INTENTION TO:	SUBSEQUENT REPORT OF: MONTHLY PROGRESS
TEST WATER SHUT-OF FRACTURE TREAT	PULL OR ALTER CASING DIRECTIONAL DRILL	WATER SHUT-OFF REPAIRING WELL FRACTURE TREATMENT
SHOOT OR ACIDITE	PERFORATE CASING	SHOOTING OR ACIDIZING ABANDONMENT
REPAIR WELL (OTHER)	CHANGE PLANS	(OTHER) Progress X
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
12-20-77	HCL. TP 4,000 psi, ISIP 3,5	'. Acidized Barker Creek w/9-1/2 bbls., 28% 500 psi.
12-21-77	Testing.	
12-22-77	Squeezed Barker Creek w/30	sx cement + 2% CaCl.
12-23-77	Perfed Desert Creek 5,307'	
	refled besett Greek 3,307	-12' w/2 JSPF.
12-24-77	Ran pkr set at 5,498'. Acid	-12' w/2 JSPF. dized perfs w/6 bbls., 28% HCL w/tracer IP 3,300 psi. Tracer log showed no
	Ran pkr set at 5,498'. Acid material. TP 3,300 psi, IS	dized perfs w/6 bbls., 28% HCL w/tracer IP 3,300 psi. Tracer log showed no
12-25-77	Ran pkr set at 5,498'. Acid material. TP 3,300 psi, IS: communication.	dized perfs w/6 bbls., 28% HCL w/tracer IP 3,300 psi. Tracer log showed no RECEIVED
12-25-77 12-26-77	Ram pkr set at 5,498'. Acid material. TP 3,300 psi, IS communication. S/D for Holidays.	dized perfs w/6 bbls., 28% HCL w/tracer IP 3,300 psi. Tracer log showed no
12-25-77 12-26-77 12-27-77	Ran pkr set at 5,498'. Acid material. TP 3,300 psi, IS communication. S/D for Holidays. S/D for Holidays.	dized perfs w/6 bbls., 28% HCL w/tracer IP 3,300 psi. Tracer log showed no RECEIVED
12-25-77 12-26-77 12-27-77 12-28-77	Ran pkr set at 5,498'. Acid material. TP 3,300 psi, IS communication. S/D for Holidays. S/D for Holidays. S/D for Holidays.	dized perfs w/6 bbls., 28% HCL w/tracer IP 3,300 psi. Tracer log showed no RECEIVED DEC 30 19//
12-25-77 12-26-77 12-27-77 12-28-77	Ran pkr set at 5,498'. Acid material. TP 3,300 psi, IS communication. S/D for Holidays. S/D for Holidays. S/D for Holidays. Testing.	dized perfs w/6 bbls., 28% HCL w/tracer IP 3,300 psi. Tracer log showed no RECEIVED DEC 30 19//

((3)

1. Name of Operator	Energy Reserves	Group, Inc.		
2. Oal WELL	GAS WELL	OTHER 🔲	(Specify)	<u> </u>
3. Well Mame Nav	ajo ''0'' <i>#</i> 9			 -
Location 2.3	10' FNL & 1,650'	FEL (SW N	E})	
sec26	41N	Rgo		Arixona.
4. Federal, State or Ind	ian Lease Number, or lesso	or's name if fee lease.	Navajo 14-20-603-716	
5. Field or Pool Name	Teec Nos Pos -	- Ismay		
6. Check Appropriate I	lox to Indicate Nature of N	fotice, Report, or Oth	er Data	
1	OTICE OF INTENTION T	°O:	Subsequent report of: Monthly progress	;
TEST WATER SHUT- FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (OTHER)	PULL OR AL DIRECTIONA PERFORATE CHANGE PL	CASING	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (OTHER) REPAIRING WELL ALTERING CASING ABANDONMENT	
			(NOTE: Report results of multiple completion on Well Comport and Log form.)	piellon
7. DESCRIBE PROPOS starting any propose sonse pertinent to the			tate all pertinent details, and give pertinent dates, including estimate and including estimate locations and measured and true vertical depths for all many sections are sections as a 5,653'-57' & 5,730'-34' w/2 JPF'.	ied date of arkers and
12-20-77		w/250 gals 2	28% NE acid. Pressure tbg under pkr to	
12-21-77	Swab well dry. circulation fr annulus.	Rec. 4.19 B com bottom pe	W. Set pkr between perfs. Establish rfs behind pipe to upper perfs and	
	Received verba Arizona, to pl	l permission ug off Barke	12-21-77 from Bill Allen, State of r Creek Zone as follows:	
	Run tubing ope cement through casing should	n tubing. TOH	BTD (5,800'±). Mix and pump 30 sx with tubing. Cement top inside 5-1/2"	
			RECEIVED	
			DEC 23 1977	
a			0 & G CONS. COMM.	
8. I hereby certify the	et the foregoing is true and	correct.	20.00.77	
summer hill	4 13. 1dan	<u>u/</u>	THE Dist. Prod. Engr. Date 12-22-77	
Permit No. 68	7		STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notices and Reports On Wells File Two Copies Form No. 25	N

Name of Operator Energy Reserves Group, Inc.	
. Onl. WELL S GAS WELL OTHER S	(Specify)
. Well Name Navajo ''O'' #9	
Location 2,310' FNL & 1,650' FEL (SW NE法)	
Sec 20 Twp 41N	30E county Apache Artzuna.
4. Federal, State or Indian Lease Number, or lessor's name if fee lease	Navajo 14-20-603-716
5. Field or Pool Name Teec Nos Pos - Tsmay	
6. Check Appropriate Box to Indicate Nature of Nolice, Report, or Other	Data
NOTICE OF INTENTION TO:	Sursequent report of: Monthly Progress
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL COTHER) PULL OR ALTER CASING DIRECTIONAL DRILL PERFORATE CASING CHANGE PLANS	FRACTURE TREATMENT SHOOTING OR ACIDIZING AEANDONMENT OTHER) Propress X
	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
12-17-77 Ran tubing. Swab fluid to 4,700' 12-18-77 Perfed Barker Creek 5,653'-57',	
	RECEIVED
	DEC 2 1 1977
	O & G CONS. COMM.
8. I hereby certify that the foregoing is frue and correct.	
Tony (Col	THE Production Figr. Date 12-19-77
Pernul No. 687	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notices and Reports On Wells File Two Copies Form No. 28

SUNDRY NOTICES AND REPORTS ON WELLS Energy Reserves Group, Inc. GAS WELL OTHER [2. Oak WELL X Navajo ''0'' #9 2,310' FNL & 1,650' FEL SW NE Apache 30E 26 41N 14-20-603-716 4. Federal, State or Indian Lease Number, or lessor's name if fee lease. Teec Nos Pos 5. Field or Pool Name._ 6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: MONTHLY PROGRESS TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF REPAIRING WELL DIRECTIONAL DRILL FRACTURE TREAT FRACTURE TREATMENT ALTERING CASING SHOOT OR ACIDIEE PERFORATE CASING SHOOTING OR ACIDIZING ABANDONMENT REPAIR WELL CHANGE PLANS Progress (OTHER) (OTHER) (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all perfinent details, and give perlinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and sones pertinent to this work.) 12-14-77 W.O.C.T.

Completion rig expected to move on 12-15-77.

RECEIVED

DEC 191977

0 & G CONS. COMM.

Thereby certiff that the foregoing is true and correct:		
Bloom Alean 13. Frances	nu Dist. Prod. Engr.	
		FARIZONA VATION COMMISSION

File Two Copies

Form No. 25

Permit No. 687

Form 9-131 (May 1963	"DEPARTI	UNITED STATES MENT OF THE INTER GEOLOGICAL SURVEY	SUBMIT IN TRIPLE (Other instructions of verse side)	6. LEAS	Form approved Budget Bureau se pendination at 4-20-603-71	No. 42-R1424. NO SERIAL NO.
	SUNDRY NOT Do not use this form for propo Use "APPLIC	ICES AND REPORTS sals to drill or to deepen or plug ATION FOR PERMIT—" for such	ON WELLS back to a different reservoir. proposals.)	Na	AVAjo	
Energy P.O 4. LOCAT See ni At su	of OPERATOR rgy Reserves Group ss of OPERATOR Box 3280, Casper rion of Well (Report location iso space 17 below.) urface	Wyoming 82602 clearly and in accordance with an	ny State requirements.*	9. wes 9 10. Fr	N OR LEASE NAME RVAJO 11011 LL NO. ELD AND POOL, OR ECC. NO. PO. C., T., R., M., OR B.	wildcat s - Ismay
2,3	110' FNL & 1,650' F	EL (SW NE%) 15. ELEVATIONS (Show whether G.L. ELEV. 5,23		S	ec. 20-T41	N-R30E
15.	Check A	Appropriate Box To Indicate ENTION TO: PULL OR ALTER CASING		t, or Other E		VELL
FRA SHC REF	OOT OR ACIDIZE	MULTIPLE COMPLETE ABANDON® CHANGE PLANS	(Nors: Repor	Vell Histor t results of mul Recompletion B	tiple completion teport and Log fo	on Well
17. DESC		PERATIONS (Clearly state all perti	nent details, and give pertine	nt dates, includ	ing estimated dat hs for all marker	e of starting an s and zones pert

The above described well was drilled to a T.D. of 5,840' w/7-7/8" bit. Out Core #1 5,240'-5,299' in Lower Ismay & Core #2 5,300'-5,360' in Desert Creek. Ran Logs.

Ran 179 its 5,833'(net), 5-1/2" O.D., 14#, K-55, 8Rth, SS, ST&C, R-3, new casing set at 5,840' (K.B.). Cemented w/500 sx of 50-50 pozmix and cement w/2% gel & 10% salt. Plug down at 10:55 p.m., 12-05-77. Good returns throughout job.

RECEIVED

DEC 121977

0 & G CONS. COMM.

18. I hereby certify that the foregoing is true and correct SIGNED (Crose (. /)	TITLE Drilling Superintendent	DATE _	12-06-77
(This space for Federal or State office use)			`
APPROVED BY	TITLE	DATE	

687

*See Instructions on Reverse Side

_

MAR 6 1978

0 & G CONS. COMM.

CORE ANALYSIS RESULTS FOR
ENERGY RESERVES GROUP, INC.
NAVAJO "O" NO. 9
TEEC NOS POS FIELD
APACHE COUNTY, ARIZONA

CL-511 2

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1000 Carrier 1000

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering DALLAS. TEXAS

Company ENERGY RESERVES GROUP INC	Formation LOWER ISMAY, DESE	RT CK. Page 1 of 3
Well NAVAJO "O" NO. 9	Cores_ DIA CONV	
mana Non TOC	Drilling Fluid W.B.M.	Date Report NOV. 30,1977
	-	Analysts TRUITT
County APACHE State ARIZONA		Missysta
Location SE NE SEC 26 T41N R30E	Remarks	

CORE ANALYSIS RESULTS
(Figures in parentheses refer to footnote remarks)

SAMPLE		PERME MILLIS	ABILITY DARCYS	POROSITY	RESIDUAL SATURATIO		PROBABLE REMARKS
NUMBER	DEPTH FEET	MAX	90 DEG	PERCENT	% VOLUME % PORE	TOTAL WAYER % PORE	PROBLEM
1	5236-37	0.01	0.01	1.1	0.0	16.1	LM, gy dns tr scat p-p vugg styl
2	5237-38	0.01	0.01	2.8	0.0	35.6	LM, gy dns tr scat p-p vugg
3	5238-39	0.01	0.01	1.6	.:O.O	24.7	LM, gy dns tr scat p-p vugg styl
4	5239-40	0.04	0.04	2.7	3.4	27.6	LM, gy dns p-p vugg
	5240-41	0.15	0.09	3.1	2.9	36.4	LM, gy dns p-p vugg
5 6	5241-42	0.05	0.01	1.9	4.7	37.8	LM, gy dns p-p vugg vf
7	5242-43	0.46	0.10	3.1	3.3	25.6	LM, gy dns-xln p-p vugg
8	5243-44	0.06	0.02	3.1	3.2	25.7	LM, gy dns-xln p-p vugg
9	5244-45	0.22	*	3.1	3 . 6	34.5	LM, gy dns-xln p-p vugg vf
10	5245-46	0.10	*	3.2	2.8	42.6	LM, gy dns-xln p-p vugg vf
11	5246-47	0.25	0.02	4.2	9.7	33.8	LM, gy dns-xln p-p vugg
12	5247-48	0.52	0.07	2.7	12.1	36.5	LM, gy dns-xln p-p vugg
13	5248-49	0.32	0.22	3.9	14.2	28.7	LM, gy dns-xln abd p-p vugg algal por
14	5249-50	6.8	0.23	3.8	8.6	45.7	LM, gy dns-xlm abd p-p vugg algal por
15	5250-51	1.7	0.90	4.5	9. 6	39.5	LM, gy xln abd p-p vugg algal por
16	5251-52	1.3	1.3	5.1	11.0	33.3	LM, gy xln abd p-p vugg algal por
17	5252-53	1.7	1.6	5.8	10.3	31.1	LM, gy xln abd p-p vugg algal por
18	5253-54	3.7	1.8	5.9	9.4	34.4	LM, gy xln abd p-p vugg algal por
19	5254-55	5.8	5.8	7.1	8.3	36.1	LM, gy xln abd p-p vugg algal por
20	5255-56	4.4	3.3	4.5	7.8	46.1	LM, gy xln abd p-p vugg algal por
21	5256-57	18.	16.	7.6	7.6	41.1	LM, gy xln abd p-p vugg algal por
22	5257-58	9.3	8.9	6.4	5.0	37.4	LM, gy xln abd p-p vuggs algal por
23	5258-59	6.4	4.0	6.3	1.8	37.8	LM, gy xln abd p-p vuggs algal por
24	5259-60	7.7	5.7	8.8	3.5	43.1	LM, gy dns-xln abd p-p vuggs algal por
25	5260-61	5.3	4.7	7.9	4.9	17.6	LM, gy xln-suc abd p-p vuggs algal por
26	5261-62	2.4	2.1	5.8	6.1	18.1	LM, gy xln-suc abd p-p vuggs algal por
27	5262-63	0.03	0.01	3.5	8.5	25.3	LM, gy xln-suc p-p vuggs styl
28	5263-64	0.08	0.05	3.5	3.2	25.8	LM, gy xln-suc p-p vuggs
29	5264-65	0.01	*	1.3		39.5	
<u>3</u> 6	5265-66	0.01	0.01	1.5	0.0	37.5	
31	5266-67	0.01	0.01	0.7	0.0	50.0	
32	5267-68	0.01	*	1.5	0.0	50.0	LM, gy dns vf
33	5268-69	0.01	0.01	0.9	0.0	50.0	LM, gy dns
	5269-70	0.01	*	1.0	0.0	59.6	
35	5270-71	0,01	0.01	0.7	0.0	50.0	LM, dk-gy dns
36	5271-72	1.0	0.01	1.2	0.0	40.1	LM, dk-gy dns vf
<u>الر</u> الإ	5272-52			_ •	-		Shaleno analysis Desert creek form.
34 35 36 37	5284-85		0.05	1.0	0.0	59.8	LM, gy dns frac
38	5285-86		0.01	2.0	0.0	77.8	
	5286-87		0.05	1.4	0.0	57.0	
39	5200-07	0.07	0.07	T 01	V.0	÷	(2) OFF LOCATION ANALYSES-NO INTERPRETATION OF RESULTS

NOTE:

(*) REFER TO ATTACHED LETTER.

(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CL-51172

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering DALLAS, TEXAS

Company	, ENERGY	RESERV	ES GROUP	INC.	Formation_	DESERT	CREEK	Page 2 of 3
Well	OLAVAN				CoresDIA	CONV		File_RP-3-2835
		OS POS			Drilling Flu	id W.I	3.M.	Date Report NOV. 30,1977
Field					Elevation			Analysts TRUITT
County	APACHE		tate_ARIZO		Elevation	<u> </u>		Amaryso
Location	SE NE	SEC 26	T41N R30		Remarks			
				CC	RE ANALY	SIS RE	SULTS	
				(Figu	res in parentheses ref		ole remarks)	
	DEPTH	PERMI MILLI	EABILITY DARCYS	PORCSITY	RESIDUAL SATURATIO	N	PROBABLE	REMARKS
SAMPLE NUMBER	FEET	MAX	90 DEG	PERCENT	OIL % PORE	TOTAL WATER % PORE	PRODUCTION	
			1/5					
40	5287-88	0.01	*	2.1	1.9	54.5	LM, gy	xln vf
41	5288-89	0.04	*	3.2	2.2	54.3		xln-suc tr p-p vugg vf
42	5289-90	0.05	*	3.2	1.6	49.2		xln vf ecovery
	5290-96	_						depth.corr.
•	5296-530		0.04	0.5	0.0	66.7	LM, gy	
43	5300-01	0.01	0.01	0.7	0.0 0.0	66.7	LM, gy	
1 1 14	5301-02	0.01	0.01	0.6 0.6	0.0	66.7	LM, gy	
45	5302-03	0.01 0.10	0.01 0.09	1.0	0.0	75.0		dns sh-ptg
46	5303-04	0.10	*	0.9	0.0	60.0		dns styl
47	5304-05	0.01	0.01	1.1	0.0	80.0	T.M. gv	dns vf
48 49	5305-06 5306-07	0.04	0.01	4.4	0.0	73.9	LM. gy	suc abd mcr vugg vf
50	5307-08	0.13	0.11	1.2	0.0	80.0	LM, gy	
51	5308-09	0.11	0.09	0.7	0.0	66.7	LM, gy	
52	5309-10	0.66	*	7.6	8.8	52.9	LM, gy	y tr oomoldic por vf
53	5310-11	0.30	· X	12.8	6.0	31.8	LM, gy	y tr oomoldic por
54	5311-12	0.16	*	10.5	6.1	28.9		y tr oomoldic por vf
55	5312-13	0.11	*	8.4	7.9	18.7	LM, g	y tr suc styl ví
56	5313-14	0.10	*	5.6	8.6	22.8	LM, g	y tr xln tr mer vugg
57	5314-15	0.06	0.03	5.2	1.7	59.7		y tr xln tr mer vugg
58	5315-16	0.12	0.08	3.4	0.0	64.7		y dns styl
59	5316-17	0.04	0.01	3.6	0.0	70.6		y dns styl
60	5317-18	0.03	0.01	2.6	0.0	71.4		y dns styl
61	5318-19	0.26	0.19	0.8	0.0	75.0		k-gy dns styl frac
62	5319-20	0.26	0.14	0.6	0.0	66.7		k-gy dns frac
63	5320-21	0.18	0.14	0.7	0.0	75.0	-	k-gy dns frac
64	5321-22	0.22	0.13	1.1	0.0	50.0		k-gy dns frac k-gy dns frac
65	5322-23	0.14	*	8.0	0.0	66.7 66.7	_	k-gy dis 11ac k-gy dis
66	5323-24	0.01	* ^ ^>	0.7	0.0 0.0	66.7		k-gy dns k-gy dns frac
67	5324-25	0.40	0.23	0.6	0.0	00.7		lmstno analysis
	5325-535 5356-535							recovery
	5356-539	JU					2000	

* Plug type permability samples

(2) OFF LOCATION ANALYSES-NO INTERPRETATION OF RESULTS.

(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESUL.

(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CL~511-2

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering DALLAS, TEXAS

Well Field County_	on mac	"O" NO. 9	9 e_ARIZO		Formation Cores D Drilling F Elevation Remarks	luid W.	B.M.	File RP-3-283 Date Report	of 3 5 70V. 30,1977 HTT
Location	1 DE NO C	<u> </u>		CC	RE ANAL	YSIS RE	SULTS		
SAMPLE NUMBER	DEPTH FEET	PERMEAB MILLIDAI HORIZONTAL	ILITY RCYS VERTICAL	GRAIN DNS.	RESIDU SATURAT OIL % YOLUHE % POI	AL TON TOTAL	PROBABLE PRODUCTION	REMAR?	(5
2 4 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 32 53 54 55 55 56	5237-38 5239-40 5246-47 5247-48 5248-49 5249-50 5251-52 5251-52 5252-53 5253-54 5254-55 5256-57 5256-57 5259-60 5260-61 5261-62 5262-63 5264-65 5267-68 5310-11 5311-12 5313-14		0.01 0.01	2.69 2.73 2.69					

** Plug type permability samples

.

6.

(2) OFF LOCATION ANALYSES-NO INTERPRETATION OF RESULTS.

(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESUL

(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.

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CORE LABORATORIES, INC

Petroleum Reservoir Engineering

FILE__RF-3-2835 __FIELD __TEEC NOS POS COMPANY ENERGY RESERVES GROUP, INC. DATE NOV. 30, 1977 COUNTY_APACHE NAVAJO "O" NO. 9 ARIZONA

LOCATION SE NE SEC 26 T41N R30E

ELEV. 5244 KB

CORE-GAMMA CORRELATION

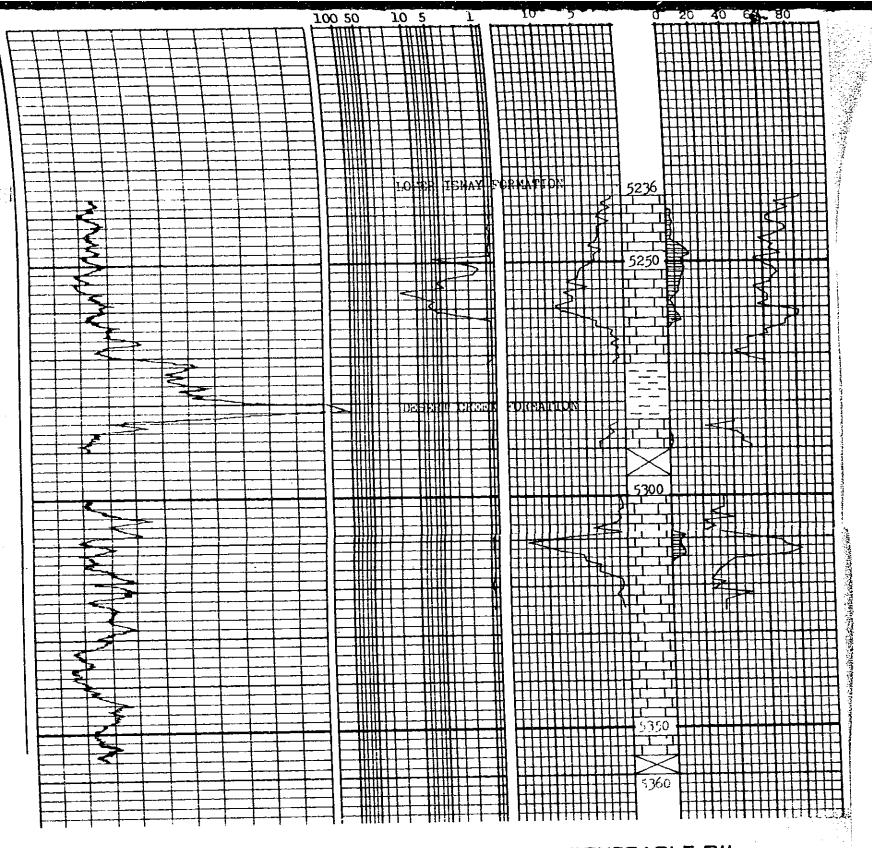
VERTICAL SCALE: 5" == 100'

CORE-GAMMA SURFACE LOG

(3

COREGRAPH

(PATENT APPLIED FOR TOTAL WATER **GAMMA RAY** PERCENT TOTAL WATER 80 60 40 20 RADIATION INCREASE PERMEABILITY POROSITY -OIL SATURATION -----PERCENT PORE SPACE 100 50 530



CORE SUMMARY AND CALCULATED RECOVERABLE DIL

FORMATION NAME AND DEPTH INTERVAL: Lower Ismay - 5249.0-5262.0 Feet							
FEET OF CORE RECOVERED FROM	13	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	35•5				
ABOVE INTERVAL FEET OF CORE INCLUDED IN AVERAGES	13	AVERAGE CONNATE WATER SATURATION: FER CENT OF PORE SPACE	30 (e)				
AVERAGE PERMEABILITY:	5.7	OIL GRAVITY: ⁹ API	40 (e)				
PRODUCTVE CAPACITY: MILLIDARCY-FEET	74.5	DRIGINAL SOLUTION BAS-DIL RATIO: Cubic feet per barrel	7 00 (
AVERAGE POROSITY: PER CENT	_{i'} 6.1	GRIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER SARREL STOCK-TANK DIL	1.30 (e				
AVERAGE RESIDUAL DIL SATURATION: PER CENT OF PORE SPACE	7.2	GALGULATED ORIGINAL STOCK-TANK DIL IN PLACE: BARRELS PER AGRE-FOOT	255				

barrels per acre-foot, assuming production could be Calculated maximum solution gas drive recovery is continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

(e) Estimated

INTERPRETATION OF DATA

5236.0-5249.0 Feet - Non-productive due to low permeability and porosity. 5249.0-5262.0 Feet - Oil productive after successful artificial stimulation.

5262.0-5272.0 Feet - Non-productive due to low permeability and porosity.

5284.0-5325.0 Feet - Non-productive due to low permeability.

ί.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors. tion is given to overall reservoir characteristics and economic factors.

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Form approved, Budget Bureau No. 42-B1424. SUBMIT IN TRIPLICATES (Other Instructions of re-UNITED STATES 5. LEASE DENGINATION AND BERIAL NO. Form 9-331 (May 1963) DEPARTMENT OF THE INTERIOR Terse side) 14-20-603-716 GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTER OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPERCATION FOR PERMIT—" for such proposals.) Navajo 7. UNIT AUREEMENT NAME OIL X WELL S. FARM OR LEASE NAME 2. NAME OF OFTRATOR Navajo "0" 9. WELL NO. Fnergy Reserves Group, Inc. 3. ADDRESS OF OFERATOR P.O. Box 3280, Casper, Wyoming 82602

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)

At surface 10. FIELD AND POOL, OR WILDCAT Teec Nos Pos - Ismay 11. BEC., T., R., M., OR BLK. AND SURVEY OR AREA 2,310' FNL & 1,650' FEL SW NE法 Sec. 26-T41N-R30E 12. COUNTY OR PARISH 13. STATE 15. ELEVATIONS (Show whether DF, RT, GR, etc.) Arizona G.L. Elev. 5,231'; K.B. Elev. 5,244' Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data 16. SUBSEQUENT REPORT OF: ROTICE OF INTENTION TO: MEPAIRING WELL WATER SHUT-OFF PULL OR ALTER CASINO TEST WATER SHUT-OFF ALTERING CASING FRACTURE TREATMENT MULTIPLE COMPLETE PRACTURE TREAT BEOOTING OR ACIDIZING ABANDON® SZIGIOA SO TOOMS (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) CHANGE PLANS REPAIR WELL 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.).

The above described well was spudded at 5:30 p.m., 11-21-77. Drilled 12-1/4" hole to 525'. Ran 13 jts, 507' (net), 8-5/8" OD, 24#, K-55, 8Rth, SS, ST&C, new casing set at 520' K.B. Cemented w/385 sx of Class "B" cement w/2% CaCl₂ and 1/4# Flocele/sx. Good cement returns. Plug down at 7:10 a.m., 11-22-77. Nippled up and tested BOPE to 800 cement returns.

psi. Held O.K. Drilled out w/7-7/8" bit at 7:15 p.m., 11-22-77.

•		
SIGNED A Occe C Silleric	TITLE Drilling Superintendent	DATE 11-23-77
(This space for Federal or State office use) APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE	RECEIVED
COMPLICAS OF MATERIAL		NOV 25 1977

*See Instructions on Reverse Side

O & G CONS. COMM.

Constant

SOUTH

A TOTAL STATES

6

SUNDRY NOTICES AND REPORTS ON WELLS

Name of Operator En	ergy Reserves Group,	Inc.		
(T)	AS WELL OTHER C	1	у)	
	vajo ''0'' #9			
	= :	W NE		
sec. 26	Two 41N	8en 30E	County Apache	Arizona.
	Lease Number, or lessor's name if	1/	20-603-716	
Pield or Pool Name	Teec Nos Pos			
Check Appropriate Box	o Indicate Nature of Notice, Repo	ort, or Other Data		•
NOT	CE OF INTENTION TO:		SUBSEQUENT REPORT OF	?:
rest water shut-off fracture treat shoot or acidize repair well (other)	PULL OR ALTER CASING DIRECTIONAL DRILL PERFORATE CASING CHANGE PLANS	FRACT	R SHUT-OFF MONTHLY TURE TREATMENT REPAIRING ALTERING ABANDONS R)	WELL CASING
		(N	OTE: Report results of multiple completion	on Well Completion
. 		<u>.</u>	or Recompletion Report and Log rinent details, and give pertinent dates, inc cations and measured and true vertical de	····
Chinle De Chelly Cutler Hermosa Upper Ismay Lower Ismay Desert Creek Akah Barker Creek Lower Hermosa		erlon Trail	RECEIVED	
T.D.	5,850'		NOV 171977	
			•	
			O & G CONS. COMM.	
•	foregoids is true and currect.		1.0	
SURVICE LEGISLES	This	Fiel Tue	d Services Administrator	11/14/77
	V	For	STATE OF ARIZONA OIL & GAS CONSERVATION C Sundry Notices and Reports O File Two Copies 20 No. 25	OMMISSION

H₂

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER RE-ENTER OLD WELL APPLICATION TO DRILL. Energy Reserves Group, Inc. Wyoming 82602 Casper P. O. Box 3280 Coleman Drilling Company Drilling Contractor Farmington, New Mexico 87401 P. O. Box 1915, DESCRIPTION OF WELL AND LEASE Elevation (ground) Federal, State or Indian Lease Number, or if fee lease, name of lessor Well number 5232 "0" #9 14-20-603-716 Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: Nearest distance from proposed location to property or lease line: feet 3010 fect Number of wells on lease, including this well, completed in or drilling to this reservoir: Number of acres in lease: 2560 If lease, purchased with one or more wells drilled, from whom purchased: Name P. O. Box 591, Tulsa, Oklahoma Amoco Production Company, Dedication (Comply with Rule 105) Section-township-range or block and survey Well location (give footage from section lines) 80 acres W/2 NE% Sec. 26-T41N-R30E 2310' FNL 1650' FEL Field and reservoir (if wildcat, so state) County Apache Teec Nos Pos Distance, in miles, and direction from nearest town or post office 1.5 miles Northwest of Teec Nos Pos Trading Post Approx. date work will start Rotary or cable tools Proposed depth: 5375' £850 November 1977 Rotary Filing Fee of \$25.00 Organization Report Active Bond Status Attached X On file July 1970or attached \$25,000.00 Amount Energy Reserves Group, Inc. proposes to drill the referenced well with rotary tools. ___arks: No cores are anticipated. Potential zones which may be tested are the Lower Ismay at 5,239' and the Desert Creek at 5,304'. Copies of all logs run will be furnished upon completion of the well. Our anticipated completion zone is the Lower Ismay. CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Field Services Administrator of the NOV 1 4 1977 November 7, 1977 6 & 6 CONS. COMM. Date STATE OF ARIZONA

OIL & GAS CONSERVATION COMMISSION
Application to Drill or Re-enter

File Two Copies

Form No. 1

6

Approval Date:

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

Approved By

ŀ

- Commence

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.

- 2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- 3. All distances shown on the plat must be from the outer boundaries of the Section.

Size of Casing

8-5/8"

5-1/2"

Weight .

24#

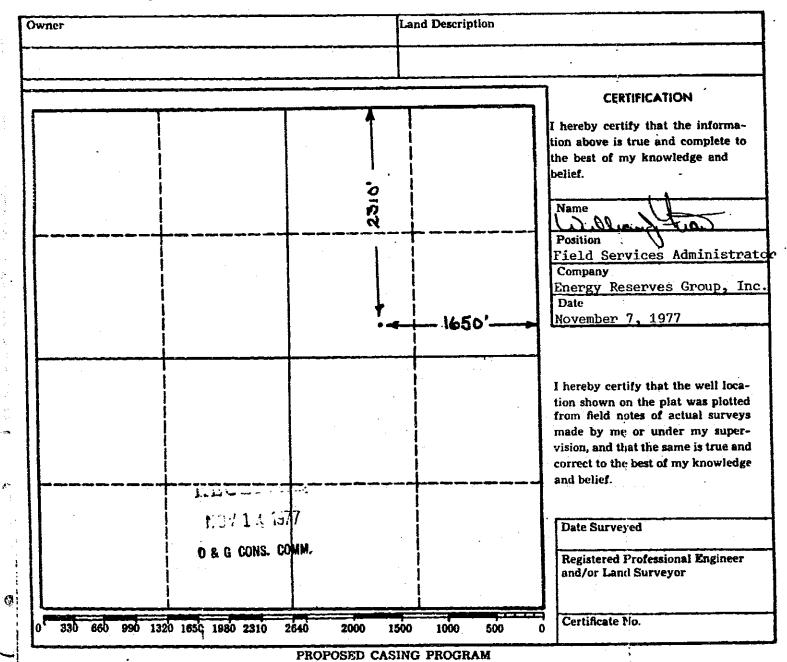
14#

Grade & Type

MU-46

i 55

- 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X NO
- 5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES._____NO_____. If answer is "yes," Type of Consolidation._______
- 6. If the answer to question four is "no," list all the owners and their respective interests below:



Bottom

Surf.

Surf.

5001+

25301+

Cementing Depths

0-5001

4975-5375

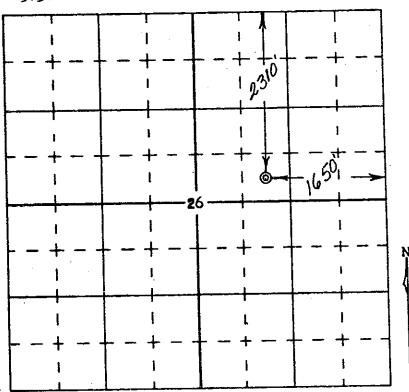
Sacks Cement

360 sx.

150 sx.

U

COMPANY Energy Reserves Group, Inc. Well Name & No. Navajo "O" No. 9 2310 feet from North line and 1650 feet from East line Being in Apache County, Arizona Sec. 26, T.41N., R.30E., G. & S.R.M. Ground Elevation 5232



November 7. Surveyed.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my are knowledge and belief.

POTEET

New Mexico ARIZUNA U.

Registered Professional Engineer and Land Surveyor.

Arisons Spreador No. 5219

民世ピニュアニー

NOV 1 4 1977

D & & CONS. COMM.







PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

₹	ENER	GY RESERVES GROU	IP, INC.	
To:		(OPERATOR)	• • .	
	, to	drill a well to be kno	own as	
		NAVAJO "O" NO.	9	
		(WELL NAME)		
located	2310 F	NL & 1650 PEL (SW/NE 1/4)	
Section26	_Township41N	Range	Apache	County, Arizona.
The		W/2 of the NE	/4	of said
Section, Township	and Range is ded	icated to this well.	· ·	
Said well is	to be drilled substa	intially as outlined in t	he attached Applicati	on and must be drilled
in full compliance	e with all applicable	e laws, statutes, rules	and regulations of th	ne State of Arizona.
Issued this	day of	November	, 19	<u>, 77 </u>
		OIL AN	D GAS CONSERVA	TION COMMISSION
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · ·

PERMIT

 N_0

687

RECEIPT NO. 1004

API No. 02-001-20236

State of Arizona

Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED



Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141 PHOENIX, ARIZONA 85016 PHONE: (602) 255-5161

October 9, 1990

711 wit 637

Seaboard Surety Company 5750 Pineland Drive, Suite 304 Dallas, TX 75231-5366

3

RE: Release of BHP Petroleum (Americas) Bond No. 731451

Gentlemen:

In reply to your letter of October 3, 1990, this letter represents approval to release the referenced performance bond 731451.

Sincerely,

Steven L. Rauzi

Oil & Gas Specialist

Stevent Rains

0

SEABOARD SURETY COMPANY

F.C. MCINTOSH RESIDENT VICE PRESIDENT JIM MAYFIELD Manager

October 3, 1990

Down 637

CERTIFIED MAIL P 774 177 957

Oil and Gas Conservation Commission 5150 N. 16th Street Suite B-141 Phoenix, Arizona 85016

Re: Bond No. 731451

BHP Petroleum (Americas) <Clinton Oil Company>

Gas/Oil Drilling

Effective: September 18, 1970

Gentlemen:

We, the Seaboard Surety Company as surety on the above captioned bond, hereby serve notice of our intent to terminate our liabililty under this bond effective Thirty (30) days from your receipt of this letter.

It would be appreciated if you would acknowledge this cancellation and a stamped envelope is enclosed for your convenience in reply.

Thank you very much.

Sincerely,

Lynde Statton

Lyndse Stratton Bond Secretary

/ls

Acknowledged By: Stewn L. Raming

cc: Art Charette

Misc. Dept.

Title Oil & Gas Specialist

cc: Alexander & Alexander, Inc.

Houston, Texas

Date___/0-9-90



Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141 PHOENIX, ARIZONA 85016 PHONE: (602) 255-5161

Premit 687

September 18, 1990

Mr. Dwight Tickle BHP Petroleum (Americas) Inc. 5847 San Felipe, Suite 3600 Houston, TX 77057

RE: BHP bonds 731451 and 81116621

Dear Mr. Tickle:

Jerry W. Bair requested that I send a copy of BHP bonds 731451 and 81116621 to your attention. I have also enclosed a copy of R. A. Ybarra's 12/24/87 letter to J. W. Bair.

Since the new operator has filed their own bond, you may now request cancellation of the BHP bonds.

Let me know if I can be of further assistance.

Sincerely,

Steven L. Rauzi

Oil & Gas Specialist

Enclosures

O



Oil and Gas Conservation Commission

STATE OF ARIZONA

3110 N. 191h AVENUE, SUITE 190 PHOENIX, ARIZONA 85015 PHONE: (602) 255-5161

December 24, 1987

BHP Petroleum 5613 DTC Parkway, Ste 600 Englewood, CO 80111

Attn: J. W. Bair

Gentlemen:

Thank you for your letter of Dec. 21, 1987, confirming the sale of property in the Dry Mesa and Teec Nos Pos fields to Cross Creek Corp.

Please be aware that your bonds (Nos. 731451 and 8111-66-21) on these properties cannot be released until Cross Creek files their own bond(s), which to date they have not done.

If we can be of any assistance, please advise.

Sincerely,

R. A. Ybarra
Enforcement Director

RAY:1r

O

Constitution 1

DEC 23 1987

0 & 3 COHS. COM.

Suite 600 5613 DTC Parkway Englewood, Colorado 80111 Telephone (303) 850-9090 DEX: (303) 850-9110

December 21, 1987



Oil and Gas Conservation Commission State of Arizona Suite 190 3220 N. 19th Avenue Phoenix, Arizona 85015 Attn: R. A. Ybarra

Re: Transfer of Property
Dry Mesa and Teec Nos Pos Fields
Apache County, Arizona

Gentlemen:

Pursuant to your letter dated October 14, 1987 (copy attached), this is to notify you that Tract 138 property in Dry Mesa Field and property in Teec Nos Pos Field, Apache County, Arizona, has been sold by BHP Petroleum (Americas) to Cross Creek Corporation, P. O. Box 1957, Duncan, Oklahoma 73534. Operations were assumed from BHP by Cross Creek at 7:00 a.m. on April 1, 1987. A list of wells involved is attached.

If you have any further questions, please do not hesitate to contact us.

Very truly yours,

BHP PETROLEUM (AMERICAS) INC.

Jerry W. Bair

/js Attachment

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WELL LOCATIONS

()

PHP Petroleum (Americas) Inc.

·	
Well Name	Description
Old Trading Post #1	790' FSL and 1850' FWL Sec. 10, T26N, R14W
Navajo "O" #1	1880' FWL and 660' FSL Sec. 23, T41N, R30E
Navajo "0" #2	1830' FSL and 1930' FEL Sec. 23, T41N, R30E
Navajo "0" #3	1000' FSL and 900' FWL Sec. 23, T41N, R30E
Navajo "O" #4	660' FSL and 660' FEL Sec. 23, T41N, R30W
Navajo "O" #5	560' FNL and 660' FEL Sec. 26, T41N, R30E
Navajo Tract 138 #1	660' FNL and 660' FEL Sec. 11, T40N, R28E
Navajo Tract 138 #2	1980' FNL and 660' FWL Sec. 12, T40N, R28E
Navajo Tract 138 #3	760' FSL and 2035' FEL Sec. 2, T40N, R28E
Navajo Tract 138 #6	1689.5' FSL and 2289.7' FWL Sec. 2, T40N, R28E

O



Oil and Gas Conservation Commission

STATE OF ARIZONA

3110 N. 191h AVENUE, SUITE 190 PHOENIX, ARIZONA 85015 PHONE: (602) 255-5161

October 14, 1987

BHP Petroleum Company, Inc. 1300 Post Oak Tower 5051 Westheimer Houston, TX 77056

RE: Transfer of Property
Dry Mesa and Teec Nos Pos Fields
Apache County, Arizona

Gentlemen:

We understand that certain wells located in the abovecaptioned fields have been transferred to Cross Creek Corp., effective July 20, 1987.

Please be informed that BHP is also required to notify the Commission in writing to confirm the transfer. Identify and give a location for each well transferred and confirm the effective date of transfer.

Your bonds, Nos. 731451 and 8111-66-21, will be released as soon as we receive proper bonding from the new operator.

If you have any questions on this matter, please call.

Sincerely,

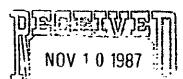
R. a. Ybarra

Enforcement Director

/kb

NOV 4 1987

cc: Cross Creek Corp.
P. O. Box 447
Farmington, NM 87499-0447



BHP PETROLEUM DNV LAND DEPT.

1300 Post Oak Tower 5951 Westheimer Houston, Texas 77056 Telephone (713) 877-5999 Fax (713) 877-5950 Telex 262496



August 19, 1986

Mr. R. A. Ybarra Enforcement Director Oil & Gas Conservation Commission State of Arizona 1645 West Jefferson, Suite 420 Phoenix, Arizona 85007

> Re: BHP Petroleum (Americas)-Bond #731451 BHP Petroleum Company -

Bond #8111-66-21

Dear Mr. Ybarra:

Pursuant to your request July 16, 1986 of Ms. Diana Jones, we submit the following well information by company:

BHP Petroleum Company Apache County, Arizona
Formerly: Monsanto Oil Company
Dry Mesa Field
Navajo Tract 138
Well #'s State Permit No.

1	77
2	106
3	115
6	852

Legal Description on the above is: Sec 1, 2, 11 & 12 TWP 40N-29.

BHP Petroleum (Americas) Apache County, Arizona Teec Nos Pos, Ismay Field Navajo Tribal 'O'

Well #'s	State Permit No.	Section No.	TWP 41N-30E.
1	232	23	
2	582	23	
3	640	23	
4	663	23	
5	678	26	
6	683	25	
9	687	26	

0

Page 2

All 7 wells are in TWP 41N-30E.

We appreciate your patience in this matter as we also had clarification to do for our benefit. Should you have further questions, please advise.

Very truly yours,

Barney E Sullivan Manager, Bond & Insurance

BES:jm 8/65

9/12/85 Date Approved 731451 Bond No. Permits covered by this bond: 232 582 640 10-9-90 (Cancelled) 685 P+A 11-20-77 686 PAA 4-26-85 687 (Cancelled) 688 (Cancelled) 689 (Organization Report) [cancelled] 800

Operator

BHP Petroleum (Americas) Inc.

Bond Company Seaboard Surety Company

Amount \$25,000

RECEVED SEP 1 2 1985

O & G CONS. COMM.

217 North Water Street Post Office Box 1201 Wichita, Kansas 67201 Telephone (316) 265-7721 Fax (316) 264-6929 Telex II (910) 741-6940



September 9, 1985

State of Arizona Oil & Gas Conservation Commission 1624 W. Adams, Room 202 Phoenix, AZ 85007

Re: Bond #731451

Blanket Drilling & Operator's Bond Principal: Energy Reserves Group, Inc.

Gentlemen:

Please be advised effective July 11, 1985, Energy Reserves Group, Inc., changed its name to:

BHP PETROLEUM (AMERICAS) INC.

Enclosed is a Bond Name Change Endorsement which we request you attach to the captioned bond.

Thank you for your cooperation and should you have any questions or have any concerns regarding this change, please contact me at the address or telephone number set out on this letterhead, as soon as possible.

Very truly yours,

BHP PETROLEUM (AMERICAS) INC.

Barney E. Sullivan

Manager, Bonds & Insurance

BES/skb

Enclosure

Ra: Prod. Reports (303) 850 9090

Denver CO

OPPER DE

- STATE GO

ENDORSEMENT

RECEIVED

SEP 1 2 1985

It is hereby agreed that the Name of the Principal on the Bond 0 & G CONS. COMM. to which this Endorsement is attached is changed to:

BHP PETROLEUM (AMERICAS) INC.

This endorsement is effective on the 11	den of July	19 85
Nothing herein contained shall be held to vary, a agreements, or limitations of the attached bond other	than as above stated.	s, conditions,
Attached to and forming a part of point 19.	1451	
Issued to ENERGY RESERVES GROUP, INC.	The state of the s	
In Witness Whereof, SEABOARD SURETY COM	MPANY has caused this endorsement to	be executed
by its officers or agent duly authorized thereunto, this		<u>19 85</u>
Dick Buryardner S	SEABOARD SURETY COMPANY X	Me
Form 3295 5M-3-58	Susan C. Warren, Attorney-i	n-īact

)

Certified Copy

SEAT DARD SURETY CON DANY New York, New York

1361

1321

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That SEABOARD SURETY COMPANY, a corporation of the State of New York, has made, constituted and appointed and by these presents does make, constitute and appoint R. B. Matassarin, W. C. Cohen, Jr, Roberta I. Heorman, Paul C. Yankey, Jr, Joe E. Moddrell, Jr, Susan C. Warren, Joseph C. Lukens II, Scott T. Post, Richard K. Stone, Ken W. Johnson, Jay E. Chapple of Wichita, Kansas

its true and lawful Attorney-in-Fact, to make, execute and deliver on its behalf insurance policies, surety bonds, undertakings and other instruments of similar nature as follows: Without Limitations

んとしもょうとり

SEP 12 1985

O & G CONS. COMM.
Such insurance policies, surety bonds, undertakings and instruments for said purposes, when duly executed by the aloresaid Attorney-in-Fact, shall be binding upon the said Company as fully and to the same extent as if signed by the duly authorized officers of the Company and sealed with its corporate seal; and all the acts of said Attorney-in-Fact, pursuant to the authority hereby given, are hereby ratified and confirmed.

This appointment is made pursuant to the following By-Laws which were duly adopted by the Board of Directors of the said Company on December 8th, 1927, with Amendments to and including January 15, 1982 and are still in full force and effect: ARTICLE VII, SECTION 1:

"Policies, bonds, recognizances, atloutations, consents of purely, underwriting under Insurance policies; bonds, recognizances, stipulations, consents of surely and underwriting undertakings of the Company, and releases, agreements and other writings relating in any way thereto or to any claim or loss thereunder, shall be signed in the name and on behalf of the Company

(a) by the Chairman of the Board, the President, a Vice-President or a Resident Vice-President and by the Secretary, an Assistant Secretary, a Resident Secretary or a Resident Assistant Secretary; or (b) by an Attorney-in-Fact for the Company appointed and authorized by the Chairman of the Board, the President or a Vice-President to make such signature; or (c) by such other officers or representatives as the Board may from time to time determine.

The seal of the Company shall if appropriate be affixed thereto by any such officer. Attorney-in-Fact or representative.

IN WITNESS WHEREOF SEABOARD SURETY COMPANY has caused these presents to be signed by one of its vice-Presidents, and its corporate seal to be hereunto affixed and duly attested by one of its Assistant Secretapes, this September 1984 day of

Attest

STATE OF NEW YORK COUNTY OF NEW YORK
On this 27th di

R. T. Gundersen

September day of

19 84 before me personally appeared a Vice-President of SEABOARD SURETY COMPANY,

with whom I am personally acquainted, who, being by me duly sworn, said that he resides in the State of New York that he is a Vice-President of SEABOARD SURETY COMPANY, the corporation described in and which executed the foregoing instrument, that he knows the corporate seal of the said Company; that the seal affixed to said instrument is such corporate seal, that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto as Vice-President of said Company by like authority MARGARET M QUINTAN

Notary Public State of New York

Notary Public State of New York

No OTO Undersort

(Seal)

Outsiffed in Richmond County

Certificate Piled in New York County

Certificate Piled in New York County

Commission Expires Marging, 1988

I, the undersigned Assistant Secretary of SEABOARD SURETY COMPANY to hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this Certificate and I do further certify that the Vice-President who executed the said Power of Attorney was one of the Officers authorized by the Board of Directors to appoint an attorney in-fact as provided in Article VII, Section 1, of the By-Laws of

This Certificate may be signed and seated by facsimile under and by suthority of the following resolution of the Executive Committee of the Board of Directors of SEABOARD SURETY COMPANY at a meeting duty called and held on the 25th day of March 1970.

"RESOLVED (2) That the use of a printed facsimile of the corporate seal of the Company and of the signature of an Assistant Secretary on any certification of the correctness of a copy of an instrument executed by the President or a Vice-President pursuant to Article VII. Section 1, of the By-Laws appointing and authorizing an attorney-in-fact to sign in the name and on behalf of the Company surety bonds, Underwriting undertakings or other instruments described in said Article VII. Section 1, with like effect as it such seal and such signature had been manually attitude and made, hereby is authorized and approved.

IN WITHESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of the Company to these presents this 31 day of July

1

Form 957 (Rev 7/64)

For verification of the authenticity of this Power of Attorney you may call, collect, 212-943-7440 and ask for the Power of Attorney clerk. Please refer to the Power of Attorney number, the above named individual(s) and details of the bond to which the power is attached

21 Rd (Con) Inc manichad Bond Company SEABOARD SURETY COMPANY Amount \$25,000 73-74-51 Date Approved Date bond:9 Permits covered by this bond: 232 V 582 640 663 678 686 200 State Alexandre,

Energy Reserves Group, Inc. P.O. Box 1201, Zip 67201 217 North Water Street Wichita, Kansas Phone 316 265 7721



March 9, 1976

W. E. Allen
Director Enforcement Section
Oil & Gas Conservation Commission
Room 202
1624 West Adams
Phoenix, Arizona 85007

Corporate Surety Bond No. 731451

Energy Reserves Group, Inc. Formerly Clinton Oil Company

Gentlemen:

The Clinton Oil Company has recently changed their name to Energy Reserves Group, Inc. Our records reflect the above Corporation Surety Bond is currently on file with your office covering the operations of Clinton Oil Company.

We enclose Name Change rider and Endorsement to be attached to and form part of the above Bond, changing the Name of the Principal to Energy Reserves Group, Inc.

Evidence and authority granting the above name change has been filed with the appropriate State Departments. Please advise us immediately if the above enclosure is not entirely satisfactory.

Yours very truly

M. C. Lyops Insurance Dept.

MCL:mh

Enc.

RECEIVED

WAH IS 1970

0 & G CONS. COMM.

O

ENDORSEMEN"

It is hereby agreed that the Name of the Principal on the Bond to which this endorsement is attached is changed to:

ENERGY RESERVES GROUP, INC.

This endorsement is effective on the 11th	day of February	1976
Nothing herein contained shall be held to vary, alte agreements, or limitations of the attached bond other the	r, waive, or extend any of the terr	ns, conditions,
Attached to and forming a part of Bond No. 73	3 14 51	
Issued to Clinton Oil Company		······································
In Witness Whereof, SEABOARD SURETY COME		to be executed
by its officers or agent duly authorized thereunto, this	day of the control of	2/
Attest: SE Wellyn Fronchin (Evelyn Houchin) Attorney-in-fact	CABOARD SURETY COMPANY	1
Evelyn Houseun	By (A. C. Highert) Attorno	<u>rin fact</u>
(Evelyn Houchin) Attorney-in-fact	(A. C. Hebert, Attorne	y = 111 = 1210 t
Attest:	SEABOARD SURETY	COMPANY,
J	Ву	
(Seal) Joan Lynch Assistant Secretary		ide Vice-President
		A ICC-1 (CSIGCIII
STATE OF NEW YORK Sss.:	•	
On this 13th day of August John C. Whiteside COMPANY, with whom I am personally acquainted, in the State of New Jersey; that he is a Vice the corporation described in and which executed the seal of the said Company; that the seal affixed to sai affixed by order of the Board of Directors of said C Vice-President of said Company by like authority.	who, being by me duly sworn, said -President of SEABOARD SURE's foregoing instrument; that he know d instrument is such corporate sea	I that he resides FY COMPANY, vs the corporate that it was so
an to a fi Mana Marris		
State of New York No. 43-4508755 Qualified in Richmond	County	
Certificate filed in New York County	•	
(Scal) Commission Expires March 30, 1977	Karen Gavrity	Notary Public
CERTIF		
I, the undersigned Assistant Secretary of SEABOARD S Power of Attorney of which the foregoing is a full, true and Certificate and I do further certify that the Vice President v Officers authorized by the Board of Directors to appoint an the By-Laws of SEABOARD SURETY COMPANY.	who executed the said Power of Attorn attorney-in-fact as provided in Article	vill, Section 1, of
This Certificate may be signed and sealed by facsimile t Board of Directors of SEABOARD SURETY COMPANY March 1970.	at a meeting duly caned and neid c	i the both day of
"RESOLVED: (2) That the use of a printed facsimile of Assistant Secretary on any certification of the correctness Vice-President pursuant to Article VIII, Section 1, of the sign in the name and on behalf of the company surety bond in said Article VIII, Section 1, with like effect as if such hereby is authorized and approved."	of a copy of an instrument executed by By-Laws appointing and authorizing and, underwriting undertakings or other is seal and such signature had been manual	the President or a a attorney-in-fact to istruments described ly affixed and made,
IN WITNESS WHEREOF, I have hereunto set my these presents this	hand and affixed the corporate seal	of the Company to
these presents this	<i>J. B.C.C.</i> 19.7 k	
SURETY		lda ch

(3

ENDORSEMENT

It is hereby agreed that the Name of the Principal on the Bond to which this endorsement is attached is changed to:

ENERGY RESERVES GROUP, INC.

This and assess is effective on the 11th day of February 19.76
This endorsement is effective on the 11th day of February 19 70
Nothing herein contained shall be held to vary, alter, waive, or extend any of the terms, conditions, agreements, or limitations of the attached bond other than as above stated.
Attached to and forming a part of Bond No. 73 14 51
Issued to Clinton Oil Company
In Witness Whereof, SEABOARD SURETY COMPANY has caused this endorsement to be executed
by its officers or agent duly authorized thereunto, this 2nd day of March 19 76
Attest: SEABOARD SURETY COMPANY By Q-C. / Lulut (Evelyn Houchin) Attorney-in-fact (A. C. Hiebert) Attorney-in-fact

€1~

ENDORSEMENT

O

0

It is hereby agreed that the Name of the Principal on the Bond to which this endorsement is attached is changed to:

ENERGY RESERVES GROUP, INC.

This endorsement is effective on the 11th day of February 19 76
Nothing herein contained shall be held to vary, alter, waive, or extend any of the terms, conditions, agreements, or limitations of the attached bond other than as above stated.
Attached to and forming a part of Bond No. 73 14 51
Issued to Clinton Oil Company
In Witness Whereof, SEABOARD SURETY COMPANY has caused this endorsement to be executed
by its officers or agent duly authorized thereunto, this 2nd day of March 19 76
Attest: SEABOARD SURETY COMPANY By Q-C- / Lulut (Evelyn Houchin) Attorney-in-fact (A. C. Hiebert) Attorney-in-fact

SE BOARD SC ETY COMPAC HOME OFFICE

No. 7655

NEW YORK, NEW YORK

POWER OF ATTORNEY

The CEARCARD SURETY COMPANY, a cor-
NOW ALL MEN BY THESE PRESENTS: That SEABOARD SURETY COMPANY, a cor-
NOW ALL MEN BY THESE PRESENTS: That SEABOARD Solve these presents does make, pration of the State of New York, has made, constituted and appointed and by these presents does make, pration of the State of New York, has made, constituted and appointed and by these presents does make, pration of the State of New York, has made, constituted and appointed and by these presents does make,
pration of the State of New York, has made, constituted and appointed and of the State of New York, has made, constituted and appoint A. C. Ambrosia or A. C. Hiebert or James A. Bevan or Robert C. postitute and appoint A. C. Ambrosia or A. C. Hiebert or Donald E. Gragg or
institute and appoint A. C. Ambrosia of the part upll or Donald E. Gragg or

Brent or Evelyn Houchin or James W. Bily or Bill Hall or Donald E. Gragg Leonard A. Colagrossi----

its true and lawful Attorney-in-Fact, to make, execute and deliver on its behalf insurance policies, surety bonds, undertakings and other instruments of similar nature as follows: Without Limitations

Such insurance policies, surety bonds, undertakings and instruments for said purposes, when duly executed by the aforesaid Attorney-in-Fact, shall be binding upon the said Company as fully and to the same extent as if signed by the duly authorized officers of the Company and sealed with its corporate seal; and all the acts of said Attorney-in-Fact, pursuant to the authority hereby given, are hereby ratified

This appointment is made pursuant to the following By-Laws which were duly adopted by the Board of Directors of the said Company on December 8th, 1927, and are still in full force and effect:

"Policies, bonds, recognizances, stipulations, consents of surety, underwriting undertakings and instruments relating thereto.

Insurance policies, bonds, recognizances, stipulations, consents of surety and underwriting undertakings of the Company, and releases, agreements and other writings relating in any way thereto or to any claim or loss thereunder, shall be signed in the name and on helpful of the Company. the name and on behalf of the Company

(a) by the Chairman of the Board, the President, a Vice President or a Resident Vice President and by the Secretary. (a) by the Chairman of the Board, the Fresident, a vice President of a Resident vice President and by the Secretary, a Resident Secretary of a Resident Assistant Secretary, of (b) by an Attorney-in-Fact for the Company appointed and authorized by the Chairman of the Board, the President or a Vice President to make such signature; or (c) by such other officers or representatives as the Board may from time to time determine.

The seal of the Company shall if appropriate he affixed thereto by any such officer, Attorney-in-Fact or representative."

IN WITNESS WHEREOF, SEABOARD SURETY COMPANY has caused these presents to be signed by one of its Vice-Presidents, and its corporate seal to be hereunto affixed and duly attested by one of its Assistant Secretaries, this 13th day of August , 19 75

Attest:

SEABOARD SURETY COMPANY,

(Seal)Joan Lynch

Assistant Secretary

John C. Whiteside

Vice-President

STATE OF NEW YORK SS.:

On this....13th day of August 19.75, before me personally appeared John C. Whiteside a Vice-President of SEABOARD SURETY COMPANY, with whom I am personally acquainted, who, being by me duly sworn, said that he resides in the State of New Jersey ; that he is a Vice-President of SEABOARD SURETY COMPANY, the corporation described in and which executed the foregoing instrument; that he knows the corporate seal of the said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto as Vice-President of said Company by like authority.

State of New York No. 43-4508755 Qualified in Richmond County Certificate filed in New York County

Karen Gavrity

(Seal) Commission Expires March 30, 1977

Notary Public

CERTIFICATE

I, the undersigned Assistant Secretary of SEABOARD SURETY COMPANY do hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this Certificate and I do further certify that the Vice President who executed the said Power of Attorney was one of the Office and the latter of District of the Officers authorized by the Board of Directors to appoint an attorney-in-fact as provided in Article VIII, Section 1, of the By-Laws of SEABOARD SURETY COMPANY.

This Certificate may be signed and sealed by facsimile under and by authority of the following resolution of the Board of Directors of SEABOARD SURETY COMPANY at a meeting duly called and held on the 25th day of

March 1970.

"RESOLVED: (2) That the use of a printed facsimile of the corporate seal of the company and of the signature of an Assistant Secretary on any certification of the correctness of a copy of an instrument executed by the President or a Vice-President pursuant to Article VIII, Section 1, of the By-Laws appointing and authorizing an attorney-in-fact to sign in the name and on behalf of the company surety bonds, underwriting undertakings or other instruments described in said Article VIII, Section 1, with like effect as if such seal and such signature had been manually affixed and made, hereby is authorized and approved."

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of the Company to

these presents this



Forta 657 (Pey 6.74)

er w			•	O		, com
	KNOW	ALL MEN BY	THESE PRESEN	тѕ		
		•	· Bond	Serial No.	731451	(1011)
That we:	Clinton Oil Compar	ny - 217 N. W	ater St., Wi	chita	- /2/	RECEVED
of the County of	Sedgwick	fn	the State of	Kansas	67202	OCT 6 1970 STATE COMM.
as principal, and	Seaboard Sur	ety Company	·			STATE COMM.
of	New York, N					CETTET (E)
	AUTHORIZED TO				-	
= =	d firmly bound unto the Sommission", in the penal s	Pro .	and the Oil and cy-Five Thous		rvation Com (\$25,000)	
lawful money of the each of our heirs, ex	United States, for which precutors, administrators or	successors, and	assigns jointly a	nd severally	, firmly by	these presents.
The conditions of this or stratigraphic purpo	s obligation are that, when oses in and upon the follo	eas the above bor wing described is	unden principal ind situated with	proposes to in the State	drill a well , to-wit:	or wells for oil, gas
	All operations with	thin the stat	e			
		be used as blanket be	· · · · · · · · · · · · · · · · · · ·			
rules, regulations and for the proper drilling	if the above bounden print l orders of the Commission g, casing and plugging of the ls required by said Commister cease to produce oil or gas	n, especially with said well or well ission, then in th	n reference to the s, and filing with ne event said we	e requireme h the Oil ar ll or wells d	ents of A.R.S ad Gas Conso to not produc	5. § 27-516, providing ervation Commission ce oil or gas in com-
State and the rules, r	oal shall be, and declared legulations and orders of t	by the Oil and G he Commission, t	as Conservation the surety shall p	Commission promptly:	in violation	of the Laws of this
=	tion by its own efforts, or					•
2. Obtain a bid or bi sion and the Sure make available as ing other costs and hereof.	ids for submission to the C ty of the lowest responsib work progresses sufficient d damages for which the s	confinission to re- le bilder, arrang trands to pay the brety may be lia	medy the violati e for a contract t e cost of remedy ble hereunder, t	on, and upo petween such ring the viol he amount	n determinate bidder and ation; but no set forth in	tion by the Commis- the Commission, and ot exceeding, includ- the first paragraph
Liability under this l	oond may not be terminal	ed without writte	en permission of	this Commi	ission.	
WITNESS our hand	and seals this 18th	day of_	Septemb	er		19 70
	9-90	CLII	NTON OIL COM	PANY		·
	717	By:	SH	Myri	k	•
	. /		Priv	vice	Pres.	
WITNESS our trelie	and seals this 18t	th day of	Se ₁	otember		, 19 70
Countersigned F	Phoenix, Arizona	Se	aboard Sure	ty Compa	any	
By: Standard Ins.	Agericy	Ву	$\alpha \cdot c$	Thus	hid	· .
Statistical (1)	Agency	(A, C.	Hiebert) 30	Atto	rney-in-	fact
- •	·		Surety, Resider If issued in a state	nt Arizona Ages		
(If the principal is a corpo executes this bond by agen	ration, the bond should be execute t, power of attorney or other eve	ed by its duly authorizence of authority mu	ted officers, with the	seel of the cor	poration affixed	. When principal or suret
Approved 10 - 6	-70		OIL & G		OF ARIZON RVATION C	IA COMMISSSION
	TATE OF ARIZONA	4			Bond	
OIL & GAS	conservation compi	SSSION		Pile	Two Copies	

Form No. 2

Wea

HOME OFFICE

NEW YORK, NEW YORK

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That SEABOARD SURETY CONTRACT poration of the State of New York, has made, constituted and appointed and by these presents does make, R. J. Noble or A. C. Ambrosia or A. C. Hiebert or James A. Bevan constitute and appoint or Robert C. Brent or Evelyn Houchin or Paul A. Elliott,----

Wichita, Kansas, its true and lawful Attorney-in-Fact, to make, execute and deliver on its behalf insurance policies, surety Without Limitations. bonds, undertakings and other instruments of similar nature as follows:

Such insurance policies, surety bonds, undertakings and instruments for said purposes, when duly executed by the aforesaid Attorney-in-Fact, shall be binding upon the said Company as fully and to the same extent as if signed by the duly authorized officers of the Company and sealed with its corporate seal; and all the acts of said Attorney-in-Fact, pursuant to the authority hereby given, are hereby ratified and confirmed.

This appointment is made pursuant to the following By-Laws which recreduly adopted by the Board of Directors of the said Company on December 8th, 1927, and are still in full force and effect:

ARTICLE IX, SECTION 1: "Policies, bonds, recognizances, stipulations, consents of aurety, underwriting undertakings and instruments relating thereto. Insurance policies, bonds, recognizances, stipulations, consents of surety and underwriting undertakings of the Company, and releases, agreements and other writings relating in any way thereto or to any claim, or loss thereunder, shall be signed in the name and on behalf of the Company. signed in the name and on behalf of the Company

(a) by the President, a Vice President of a Resident Vice President and by the Secretary, an Assistant Secretary, a Resident Secretary or a Resident Assistant Secretary; or

(b) by an Attorney-in-Fact for the Company appointed and authorized by the President or a Vice President to make ich signature; or such signature; or

(c) by such other officers or representatives as the Board may from time to time determine. The seal of the Company shall if appropriate to affixed thereto by any such officer, Attorney-in-Fact or representative."

IN WITNESS WHEREOF, SEABOARD SURETY COMPANY has caused these presents to be signed by its Vice-President, and its corporate seal to be hereunto affixed and duly attested by its Assistant Sec-

_____, 19____70 retary, this 20th day of April

John C. Whiteside

SEABOARD SURETY COMPANY, Вy

Vice-President

W. S. Wehrell

Assistant Secretary STATE OF NEW YORK COUNTY OF NEW YORK

, 19 70, before me personally appeared On this 20th _day of_ ...Vice-President of SEABOARD SURETY

COMPANY, with whom I am personally acquainted, who, being by me duly sworn, said that he resides in the State of New Jersey; that he is Vice-President of SEABOARD SURETY COMPANY, the corporation described in and which executed the foregoing instrument; that he knows the corporate seal of the said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto as Vice-President of said Company by like authority.

(Scal)

Attest:

STATE OF NEW YORK COUNTY OF NEW YORK

Violet Johnson Notary Public State of New York No. 24-7104540 Qualified in Kings County Cert. filed in New York County Commission Expires March 30, 1972

__Asst. Secretary of Ellen M. Sala SEABOARD SURETY COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a power of attorney executed by said SEABOARD SURETY COMPANY, which is still in full force and effect.

IN WITNESS WHEREOF, I have signed this certificate at New York, New York, this 18th 19 70 September

SURE/

Form 957

.. |

ORGANIZATION REPORT

RECEIVED

full Name of the Company, Organization. or indiv	idual	MAR 2 3 1982 / NK		
Energy Reserves Group, Inc.		(MAN)		
ost Office Address (Box or Street Address)		Q & G COMS. COMM.		
n O Roy 1201 217 North Wa	ter, Wichita, Kansas 67201			
Plan of Organization (State whether organization	is a corporation, joint stock association, firm or pr	artnership, or individual)		
Corporation		[W/o-		
Purpose of Organization (State type of business in	which engaged)	n(_		
Oil and Gas Exploration and I	roduction			
if a reorganization, give name and address of pre-	rious organization.	•		
I de la companya del companya de la companya del companya de la co	(2) Name and post office address of state agent	(3) Date of permit to do business in state		
if a foreign corporation, give (1) State where incorporated	C. T. Corporation System			
	14 North 18th Avenue	8-12-70		
Delaware	Phoenix Airzona 85507			
Principal Officers or Partners (if partnership) NAME	TITLE	POST OFFICE ADDRESS		
<u> </u>	SEE ATTACHED			
		·		
DIRECTORS NAME		POST OFFICE ADDRESS		
	SEE ATTACHED			
	:			
	penalty of perjury, state that I am the Assis			
Corporation	(company), and that I am authorized	by said company to make this report; and that this, correct and complete to the best of my knowledge		
report was prepared under my supervision and	direction and that the facts makes wherein are the	in P. Yarmker		
	Signature Se	everin P. Younker		

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Organization Report File One Copy

Form No. 1

3-12-82 Date _

Page 1

March 3, 1982

ENERGY RESERVES GROUP, INC.
DIRECTORS AND OFFICERS

Paul H. Woods, Chmn. of the Board 1039 First National Bank Bldg. Wichita, Kansas 67202

Richard W. Volk, Director, President & CEO P. O. Box 1201 - 217 North Water Wichita, Kansas 67201

A. S. Bonner, Jr., Director, V. P. Exploration 601 Jefferson Street Suite 1900 Houston, Texas 77001

Clinton O. Engstrand, Director <u>Hardage</u> Center, Suite 300 100 South Main Wichita, Kansas 67202

Paul O. Gaddis, Director University of Texas at Dallas School of Management P. O. Box 688 Mail Station Green 23 Richardson, Texas 75080

Merrill W. Haas, Director 10910 Wickwild Houston; Texas 77024

John A. Hill, Director One Park Plaza Nashville, Tennessee 37203

John J. Smith, Director Sparton Corporation 2400 East Ganson Street Jackson, Mississippi 49202

William H. Wendel, Director Carborundum Center P. O. Box 156 Niagra Falls, New York 14302

Robert A. Brooks, V. P. Minerals & Mining 1746 Cole Blvd., Suite 250 Golden, Colorado 80401

Dennis W. Loughridge, V. P. Corp. Dev. & Info Systems P. O. Box 1201 - 217 N. Water Wichita, Kansas 67201

Clark R. Mandigo, V. P. Secretary & General Counsel P. O. Box 1201 - 217 N. Water Wichita, Kansas 67201

C

March 3, 1982

The contract of

Page 2

ENERGY RESERVES GROUP, INC. DIRECTORS AND OFFICERS

Reginald D. Orr, V. P. Production P. O. Box 1201 - 217 N. Water Wichita, Kansas 67201

Jack P. Revell, V. P. Finance & Adm. P. O. Box 1201 - 217 N. Water Wichita, Kansas 67201

O

December 22, 1977

Memo to File: Energy Reserves Group Navajo "0" #9

Permit No. 687

John Bannister, Executive Secretary From:

Dean Barnes called at 10:00 a.m. this date and reported that the Barker Creek formation had been perforated from 5653' to 5657' and from 5730' to 5734'. 250 gallons of acid were pumped in at the rate of 1 gal. per 2/10 minutes under 4000 1bs. pressure. Response was negligible. Operator allowed formation to soak one hour, still no particular response. Indicated porosity of zones perforated was 2%.

Operator used 30 sacks of cement to plug back to 5550'. Apparently the cement crew mixed the cement unusually heavy and top cement was 5637', being 16' above top of perforations. Phil McGrath, USGS, felt that since the formations perforated were so tight and the cement used was so heavy, this plug back job would be OK. I verbally approved the cementing as being acceptable to the Commission.

It should be noted that in the cementing job instead of getting 1.5' per sack of cement, the operator (B J Service Company) got only approximately 0.8' per sack.

The operator intends to perforate the Desert Creek, coming in at approximately 535B'(300' above present perforations). Barnes indicated that the Desert Creek and the Ismay are separated by approximately 50' of shale in this well.

Currently, the plug back td of

November 14, 1977

Energy Reserves Group, Inc. P.O. Box 3280 Casper, Wyoming 82601

Gentlemen:

Attached is your approved Application to Drill your Navajo "0" No. 9, your drilling permit and receipt for the \$25.00 filing fee.

If we can be of any assistance, please advise.

Very truly yours,

W. E. Allen Director Enforcement Section

/vb Enc.

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